ATTACHMENT H Cost Analysis

RIDS SUBREGION 1 PROPOSED PROJECTS

				Ite	mized Capital C	Osts (\$M)						
Name of Project	Туре	Number of Wells	Wells	Pumping Station	Intake System Const. Cost	Land Acquisition Cost	Pipelines	Engineering, Administration and Legal	Estimated Pilot Project Cost	Total	Annual Operations and Maintenance	Estimated Benefit (MG
1A. Golden Gate Canal - 17th Ave Intake & Pump Station	Surface Water ASR			\$ 2,300,000	\$2,500,000			\$960,000		\$7,200,000		
1B. Golden Gate Canal - 17th Ave Well and Pipeline		28	\$15,400,000			\$1,400,000						
1C. Golden Gate Canal - 17th Ave		20	\$15,400,000			\$1,400,000		\$3,080,000	1,850,000	\$27,170,000		
Transmission Lines				-			\$3,620,544	\$724,109		\$5,440,000 \$39,810,000	\$840,000	20.0
2A. Golden Gate Canal - Airport Rd											\$640,000	20.0
Intake & Pump Station 2B. Golden Gate Canal - Airport RdWei	Surface Water ASR	-		\$ 3,000,000	\$3,000,000	-	-	\$1,200,000		\$9,000,000		
and Pipeline		35	\$19,250,000			\$1,750,000	\$683,000	\$3,986,600	1,850,000	\$34,400.000 \$43,400.000	\$1,050,000	25.0
3A. Faka Union Slough-Intake & Pump	Surface Water ASR	V		\$ 3,000,000	\$3,000,000			\$1,200,000		The second second second		
3B. Faka Union Slough-Well Pipiline	CONSCENSION PLANT	35	\$19,250,000	\$ 5,000,000	\$3,000,000	\$1,750,000		\$3,850,000	1,850.000	\$9,000,000 \$33,380,000		
3C. Faka Union Slough-Transmission Line							\$15,085,680	\$3.017.136		\$22,630,000		
4A. Cocohalchee River- Intake & Pump								55,017,155		\$65,010,000	\$1,050,000	25.0
Station	Surface Water ASR			\$ 900,000	\$1,000,000			\$380,000		\$2,850,000		
4B. Cocohatchee River- Well & Pipeline		8	\$4,400,000			\$400,000	\$156,000	\$911,200	1,850,000	\$9.650.000		
						5400,000	0100,000		1,000,000	\$12,500,000	\$210,000	5.0
5A. Kehl Canal-Intake & Pump Station 5B. Kehl Canal-Well & Pipeline	Surface Water ASR	17	\$9.350.000	\$ 1,700,000	\$1,700,000	\$850,000	\$332,000	\$680,000 \$1,936,400	1,850,000	\$5,100.000 \$17,900.000		
6A. N. Collier/BSU Interconnect- Pump							33333		1,000,000	\$23,000,000	\$504,000	12.0
Station	Reclaimed Water ASR			\$ 1,500,000	NA.	NA		\$320,000		\$2,400,000		
6B. N. Cailier/BSU Interconnect-Weil & Pipeline		19	\$10,450,000					#2 000 000	4 400 000			
6C. N. Collier/BSU Interconnect-			310,450,000					\$2,090,000	1,400,000	\$17,430.000		_
Transmission Line					-		\$2,011,392	\$402,278		\$3,020.000 \$22,850.000	\$441,000	10.5
7A. S. Collier/Naples Interconnect- Pump					7000			1001-010000			3441,000	10.5
Station 7B. S. Collier/Naples Interconnect-Well	Reclaimed Water ASR			\$ 1,700,000	NA NA	NA NA		\$340,000	-	\$2,550,000		
& Pipeline		24	\$13,200,000				\$468,000	\$2,733,600	1,400,000	\$22,260,000		
BA. Pelican Bay / BB. Collier County	Carlot Court Nove			Care are record and					_	\$24,810,000	\$504,000	12.0
North-Pump Station 8A. Pelican Bay / 8B. Collier County	Reclaimed Water ASR			\$ 1,350,000	NA .	NA		\$270,000		\$2,030,000		
North-Well & Pipeline		12	\$6,600,000				\$234,000	\$1,366,800	1,400,000	\$12,010,000		
50. a										\$14,040,000	\$340,200	8.1
9A. Collier County South- Pump Station	Reclaimed Water ASR			\$ 1,000,000	NA NA	NA		\$200,000		\$1,500,000		
9B. Collier County South-Well & Pipeline		10	\$5,500,000		1.1.4.5.5.		\$195,000	\$1,139,000	1,400,000	\$10,300,000		
,			00,000,000				\$150,000	\$1,130,000	1,400,000	\$11,800,030	\$277,200	6.6
10A. Naples- Pump Station	Reclaimed Water ASR			\$ 900,000	NA.	NA		\$180,000		\$1,350,000		
10B. Naples-Well & Pipeline		9	\$4,950,000				\$176,000	\$1,025,200	1,400,000	\$9,440,000		
	HEAT DOWN BUT									\$10,790,000	\$226,800	5.4
11A. Golden Gate-Pump Station 11B. Golden Gate-Well & Pipeline	Reclaimed Water ASR	2	\$1,100,000	\$ 200,000	NA NA	NA:	\$39,000	\$40,000 \$227,800	1,400,000	\$300,000		
And the second s		-	01,100,000				300,000	3227,000	1,400,000	\$3,460,000 \$3,760,000	\$21,000	0.5
12A. Bonita Springs Utilities- Pump Station	Reclaimed Water ASR			\$ 400,000	NA.	NA.		\$80.000		\$600,000		
28. Bonita Springs Utilities-Well &				100,000	- 101	101	565860	96993712001	7536566	100000000000000000000000000000000000000		
Pipeline		5	\$2,750,000				\$98,000	\$569,600	1,400,000	\$6,030,000	\$100,800	2.4
3A. Coll Cnty N./Coll. Cnty S. Intr Pump Station	Reclaimed Water ASR			\$ 1,900,000	NA	NA		\$380,000		services (CAS)		-
3B. Coll Cnty N./Coll. Cnty S. Intr Well	TO SHIELD THAIR ASK			4 1,900,000	TRA .	NA .				\$2,850,000		
Pipeline		21	\$11,550,000	- 1			\$410,000	\$2,392.000	1,400,000	\$19,690,000 \$22,540,000	\$617,400	14.7
4A. Golden Gate Mine Pits - Intake &											3017,400	14.7
Pump Station 4B. Golden Gate Mine Pits -	Surface Water	_		\$ 150,000	\$1,000,000	\$250,000		\$230,000		\$2,040,000		
ransmission Line							\$3,600,000	\$720,000		\$5,400,000		
										\$7,440,000	\$63,000	1,5
OTALS		225	\$123.750.000	\$ 20,100,000	£12 200 000 T	\$6.400.000 T	\$27 108 810	\$36.631,723	ton 450 000 T	£208 280 000 T	\$6.245.400	****
he benefit for project 6, 7 and 13 are redu	andant from other ASR pr	rojects; therefo	ore, they are not	included in the to	tal benefit.	30,400,000	az/,100,016	330,031,723	azv.450,000	3308,380,000	\$6,245,400	111.5
Veils: \$550,000 per well except for the pit tump Station Cost: Derived from Constru	wells that are shallow w	ells and are \$	150,000.	A COLUMN TO SERVICE	W							
take cost: For the first 5 MGD the cost is	\$1M. For additional cos	st greater than	5 MGD the cost	is \$ 100k per MG	SD.							
and Cost \$50,000/well. 500 ft well separa lipes: \$4/diameter.lf							-					
ngineering = 20% of capital cost. Doesn'	t include the land cost.											
otal has a contingency of 25% & M for Surface ASR= 0.14cents/1000 c	gals X10 months X 30 da	ys/month	5025.00								-	
& M Reclaimed ASR or Mine Pits = \$1,50	000 #	attended bear										

RIDS SUBREGION 1 PROPOSED PROJECTS

		3.00%	2.00%	0.00%	\$	- 1	25%	75%	100%									
Name of Project	Amount Funded by SRF	Loan Repayment Reserve	Loan Service Fee		Underwr Discou		scal Year 1	FY 2	FY3	Principal Amount of Loan	Annual Debt Service	Debt Service Coverage(1)	Annual O & M Costs (2)	Total Annual Costs	Daily Benefit (1000 gal /day)	Average Days Per Year	Annual Benefit (1000 gal)	Cost per 1000 gallons
1C. Golden Gate Canal - 17th AveTransi	\$39,810,000	\$1,194,300	\$796,200	\$0.00	\$		\$174,000	\$697,000	\$1,219,000	\$43,890,500	\$3,088,200	\$772,050	\$840,000	\$4,700,250	20,000	180	3,600,000	\$1.31
2B. Golden Gate Canal - Airport RdWell	\$43,400,000	\$1,302,000	\$868,000	\$0.00	\$		\$190,000	\$760,000	\$1,329,000	\$47,849,000	\$3,366,700	\$841,675	\$1,050,000	\$5,258,375	25,000	180	4,500,000	\$1.17
3C. Faka Union Slough-Transmission Line	\$65,010,000	\$1,950,300	\$1,300,200	\$0.00	\$		\$284,000	\$1,138,000	\$1,991,000	\$71,673,500	\$5,043,000	\$1,260,750	\$1,050,000	\$7,353,750	25,000	180	4,500,000	\$1.63
4B. Cocohatchee River- Well & Pipeline	\$12,500,000	\$375,000	\$250,000	\$0.00	\$		\$55,000	\$219,000	\$383,000	\$13,782,000	\$969,700	\$242,425	\$210,000	\$1,422,125	5,000	180	900,000	\$1.58
5B. Kehl Canal-Well & Pipeline	\$23,000,000	\$690,000	\$460,000	\$0.00	\$		\$101,000	\$403,000	\$704,000	\$25,358,000	\$1,784,200	\$446,050	\$504,000	\$2,734,250	12,000	180	2,160,000	\$1.27
6C. N. Collier/BSU Interconnect-Transmis	\$22,850,000	\$685,500	\$457,000	\$0.00	\$		\$100,000	\$400,000	\$700,000	\$25,192,500	\$1,772,600	\$443,150	\$441,000	\$2,656,750	10,500	180	1,890,000	\$1.41
7B. S. Collier/Naples Interconnect-Well &	\$24,810,000	\$744,300	\$496,200	\$0.00	\$		\$109,000	\$434,000	\$760,000	\$27,353,500	\$1,924,600	\$481,150	\$504,000	\$2,909,750	12,000	180	2,160,000	\$1.35
Pelican Bay / 8B. Collier County North	\$14,040,000	\$421,200	\$280,800	\$0.00	\$		\$61,000	\$246,000	\$430,000	\$15,479,000	\$1,089,100	\$272,275	\$340,200	\$1,701,575	8,100	180	1,458,000	\$1.17
9B. Collier County South-Well & Pipeline	\$11,800,000	\$354,000	\$236,000	\$0.00	s		\$52,000	\$207,000	\$361,000	\$13,010,000	\$915,400	\$228,850	\$277,200	\$1,421,450	6,600	180	1,188,000	\$1.20
10B. Naples-Well & Pipeline	\$10,790,000	\$323,700	\$215,800	\$0.00	S		\$47,000	\$189,000	\$330,000	\$11,895,500	\$837,000	\$209,250	\$226,800	\$1,273,050	5,400	180	972,000	\$1.31
11B. Golden Gate-Well & Pipeline	\$3,760,000	\$112,800	\$75,200	\$0.00	\$		\$16,000	\$66,000	\$115,000	\$4,145,000	\$291,600	\$72,900	\$21,000	\$385,500	500	180	90,000	\$4.28
12B. Bonita Springs Utilities-Well & Pipelin	\$6,630,000	\$198,900	\$132,600	\$0.00	\$		\$29,000	\$116,000	\$203,000	\$7,309,500	\$514,300	\$128,575	\$100,800	\$743,675	2,400	180	432,000	\$1.72
13B. Coll Cnty N./Coll. Cnty S. Intr Well &	\$22,540,000	\$676,200	\$450,800	\$0.00	\$		\$99,000	\$394,000	\$690,000	\$24,850,000	\$1,748,500	\$437,125	\$617,400	\$2,803,025	14,700	180	2,646,000	\$1.06
14B. Golden Gate Mine Pits - Transmission	\$7,440,000	\$223,200	\$148,800	\$0.00	\$		\$33,000	\$130,000	\$228,000	\$8,203,000	\$577,200	\$144,300	\$63,000	\$784,500	1,500	180	270,000	\$2.91
0	\$308,380,000	\$9,251,400 Duration of	\$6,167,600	\$0.00	\$		\$1,349.000	\$5,397,000	\$9,444,000	\$339,989,000	\$23,922,000	\$5,980,500	\$6,245,400	\$36,147,900	111,500	180	20,070,000	\$1.80
TOTALS 0		SRF Interest Rate		3.50%	yrs													